

ABSTRACT OF THE DISCLOSURE

The invention provides a gas turbine combustor in which the size of a combustor outer casing can be reduced. A transition inner duct and a transition outer duct are disposed in a main housing, inlet openings for a fluid to cool the transition inner duct are formed at ends of the transition outer duct on both sides nearer to the combustor liner and the turbine, and the transition outer duct is formed as an extraction flow passage for extracting the cooling fluid having flown in through the inlet openings to a recuperator. A partition member is also provided to prevent the fluid in the main housing and the fluid in the combustor outer casing from mixing with each other.